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## (HIGH) TEMPERATURE SENSORS

### HIGH TEMPERATURE SENSORS PT-ELEMENT (ANALOG)

- Up to 850 °C (1,000 °C on request)
- Pt200 technology
- Fully coated sensor tip
- Sensor fixation over screw | discus
- Immersion depth 36 mm | 56 mm | customized
- Different connectors available



### THERMOCOUPLE (DIGITAL) SENT | PWM | CAN | USB

- Measurement up to 1,200 °C (peak)
- Signal processing (amplifying compensation) with ASIC
- In-house manufacturing of thermocouples
- Different supply voltages possible: (5 V | 12 V | 24 V....)
- Sensor fixation with screw: M12 | M14 | customized
- Immersion depth: 30 mm | 35 mm | 60 mm | customized
- Cable length up to 1 m
- 1 or 2 sensor assemblies possible



KYOCERA AVX Components temperature sensors determine temperature reliably, quickly and precisely in liquid or gaseous media such as water, oil, fuel, inlet air and charge air. Modular designs and robust housings with integrated elements and can detect temperatures ranging up to 1,200 °C (peak).

> 3 MIO. HIGH TEMPERATURE SENSORS  
PRODUCED WITH SINGLE DIGIT PPM QUALITY



## TEMPERATURE SENSORS OVERVIEW

Sensing Technology	Mounting Variants	Connectors	Typical Media
<ul style="list-style-type: none"> <li>• Thermocouple</li> <li>• Thermistor (NTC)</li> <li>• PTC (e.g. PT1000)</li> </ul>	<ul style="list-style-type: none"> <li>• Snap-in (Clip)</li> <li>• Screw-in (different sizes)</li> <li>• T-connector</li> <li>• In-line, direct-to-body measurement</li> <li>• Flange (customized)</li> </ul>	<ul style="list-style-type: none"> <li>• MQS</li> <li>• Cable</li> <li>• HDSCS</li> <li>• Bosch compact</li> <li>• AMP superseal</li> <li>• MLK (2 / 4 pols)</li> <li>• Junior Power Timer Bayonet</li> <li>• More on request</li> </ul>	<ul style="list-style-type: none"> <li>• Solid</li> <li>• Intake air</li> <li>• Water / oil</li> <li>• Exhaust air</li> <li>• Ambient air</li> <li>• Thermal management</li> <li>• Fuel (Diesel / gasoline)</li> </ul>
Temperature range	Accuracy	Response Time	Sensor Material
<ul style="list-style-type: none"> <li>• -40 °C to +250 °C</li> </ul>	<ul style="list-style-type: none"> <li>• E.g., +/- 1 °C between -20 °C and 120 °C</li> </ul>	<ul style="list-style-type: none"> <li>• 1.5 to 5.0 sec. (<math>\tau_{90}</math>)</li> </ul>	<ul style="list-style-type: none"> <li>• Less metal as possible</li> </ul>



### COMPANIES OF THE SENSING AND CONTROL DIVISION

The Sensing and Control Division of KYOCERA AVX is a trusted partner for global automotive players for more than 50 years. Since 2017 we are part of the KYOCERA AVX Corporation, one of the leading electronic manufacturing companies worldwide.



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